

What is claimed is:

1. An apparatus for producing a performance evaluation model, comprising:
 - a conversion rule storage unit that stores conversion rules,
 - a UML model analysis unit that inputs and analyzes a UML model, and
 - a conversion processing unit that produces a performance evaluation model by
- 5 converting the results of analysis by the UML model analysis unit in accordance with the conversion rules stored in the conversion rule storage unit.

2. An apparatus for producing a performance evaluation model, comprising:
 - a conversion rule editing unit that inputs conversion rules from a user,
 - a conversion rule storage unit that stores conversion rules input from the
- 5 conversion rule editing unit,
 - a UML model analysis unit that inputs and analyzes a UML model, and
 - a conversion processing unit that produces a performance evaluation model by
- converting the results of analysis by the UML model analysis unit in accordance with conversion rules stored in the conversion rule storage unit.

3. A method for producing a performance evaluation model, comprising the steps of:
 - defining a notation for assigning to hardware resources using expanded notation of
 - a UML model;
 - determining conversion rules for converting to a performance evaluation model
- 5 from a UML model according to that notation; and
 - systematically producing a performance evaluation model from a UML model in

accordance with the conversion rules.

4. A method for producing a performance evaluation model, comprising the steps of:
 - setting a first message of a sequence diagram as a current message;
 - focusing on the current message of the sequence diagram;
 - investigating type and attribute of a class that defines a destination object;
 - 5 investigating type and attribute of a class that defines a source object,
 - searching for conversion rules based on the types of classes that define the destination object and the source object;
 - converting and arranging the current message to the node of a performance evaluation tool in accordance with the searched conversion rules;
 - 10 judging whether or not there is a message following the current message; and
 - using the next message, if present, as the current message and focusing control on the current message.

5. A method for producing a performance evaluation model according to claim 4, wherein the step of investigating type of class and attributes further comprises steps of:
 - focusing on the object;
 - focusing on the class that defines the object;
 - 5 searching for a corresponding class from the object and searching for a resource correlation line connected to the class;
 - judging whether or not the resource correlation line exists;
 - storing the type and attribute of a resource class having a resource correlation as the type and attribute of the class if a resource correlation exists;

10 storing the type and attribute of the original class as the type and attribute of the
class if a resource correlation line does not exist.

6. A recording medium recorded with a program for enabling a computer to function
as:

a conversion rule storage unit that stores conversion rules;

a UML model analysis unit that inputs and analyzes a UML model; and

5 a conversion processing unit that produces a performance evaluation model by
converting the results of analysis by the UML model analysis unit in accordance with
conversion rules stored in the conversion rule storage unit.

7. A recording medium recorded with a program for enabling a computer to function
as:

a conversion rule editing unit that inputs conversion rules from a user;

a conversion rule storage unit that stores conversion rules input from the

5 conversion rule editing unit;

a UML model analysis unit that inputs and analyzes a UML model; and

a conversion processing unit that produces a performance evaluation model by
converting the results of analysis by the UML model analysis unit in accordance with
conversion rules stored in the conversion rule storage unit.

10